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(54) Title of Device: VACUUM CHUCK DEVICE

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(57) Claim for Registration of the Utility Model

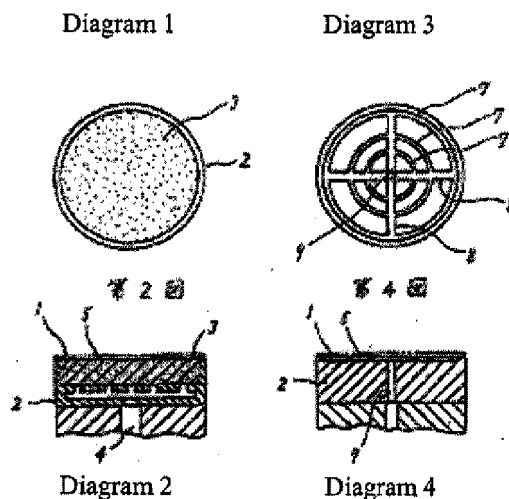
(1) A vacuum chuck device wherein comprised by having a flat suction surface that sucks by decompressing the wafer, said wafer is then left in the outer circumference of the ring and is comprised from the chuck that maintains suction and the ringed section, and is fit so that it will slide in the outer surface of said chuck, a seal body ring that faces the back of the circumference of the wafer and, a suction groove that sucks the aforementioned seal body to the back of the circumference that is decompressed by communicating with the decompression source and opening the ring by going along one side of the seal body that is established. [sic]

(2) A vacuum chuck device as noted in Claim 1, wherein the seal body has an elastic sheet that is comprised from film like elastic material on one end.

[A Simple Explanation of the Drawing]

Diagram 1 is the first convention example of a plan view, diagram 2 is the first conventional example of an essential cross section frontal view. Diagram 3 is the second conventional example of a plan view, and diagram 4 is the second conventional example of an essential cross sectional frontal view. Diagram 5 is the third conventional example of an essential cross sectional frontal view, and diagram 6 is a magnified view of section A of diagram 5. Diagram 7 is an essential cross sectional frontal view of one embodied example of this device. Diagram 8 is a magnified view of section A of diagram 7.

1 is the wafer, 1b is the back of the wafer circumference, 21 is the chuck, 31a is the suction, 32 is the seal body, 33 is one edge, 35 is the suction groove and 37 is the elastic sheet.



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審査請求 未請求

(全 2 頁)

⑭ 真空チャック装置

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内

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⑱ 出 願 昭57(1982)7月27日

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⑰ 実用新案登録請求の範囲

る実用新案登録請求の範囲第1項記載の真空チャック装置。

(1) ウエハを減圧により吸着する平坦な吸着面をもち上記ウエハを環状の外周部を残して吸着保持するチャック本体と、環状部材からなり上記チャック本体の外周面に摺動自在に嵌合し一端面を上記吸着保持されたウエハ外周部の裏面に対向した環状のシール体と、上記シール体に設けられ上記一端面に沿って環状に開口しかつ減圧源に連通し減圧により上記シール体を上記外周部の裏面に吸着させる吸着溝とを具備したことを特徴とする真空チャック装置。

図面の簡単な説明

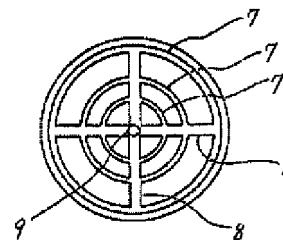
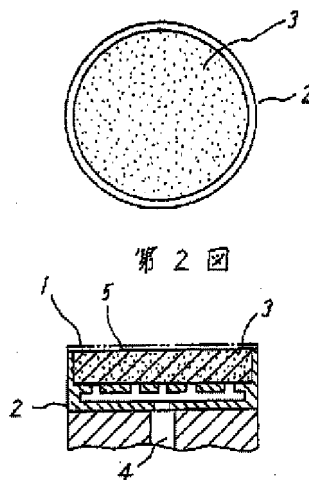
第1図は第1の従来例の平面図、第2図は同じく要部断面正面図、第3図は第2の従来例の平面図、第4図は同じく要部断面正面図、第5図は第3の従来例の要部断面正面図、第6図は第5図A部拡大図、第7図は本考案の一実施例の要部断面正面図、第8図は第7図のA部拡大図である。

1:ウエハ、1b:ウエハ外周部の裏面、21:チャック本体、31a:吸着面、32:シール体、33:一端面、35:吸着溝、37:弾性シート。

(2) シール体は一端面にフィルム状の弾性部材からなる弾性シートを具えていることを特徴とす

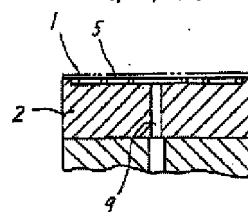
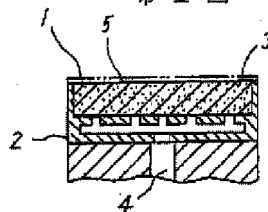
第1図

第3図

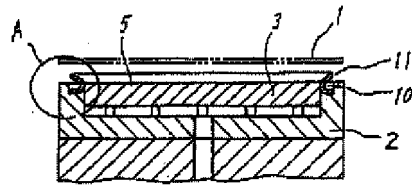


第2図

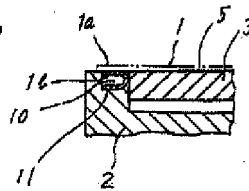
第4図



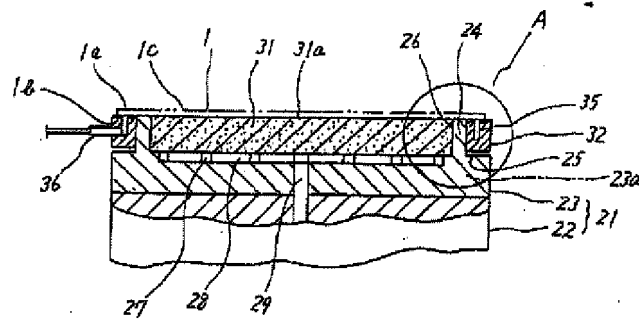
第5図



第6図



第7図



第8図

